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Keywords
Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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Keywords
Computer security, access control, program monitoring, security automata, policy specification

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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

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Keywords
Distributed fault-tolerant computing and computer networks

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Keywords
Test and diagnosis of heterogeneous, integrated systems

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Keywords

CAD and design of analog signal processing circuits and MEMS systems

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Keywords

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

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Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

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Keywords

Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

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Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Keywords

Usable privacy and security

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Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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Keywords
Databases, data mining, multimedia indexing, performance evaluation

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Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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Keywords
Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics
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Keywords  
Molecular beam epitaxy, scanning tunneling microscopy  
Ferris, Sherri Administrative Coordinator – ECE  
Fox, Toni Sponsored Research Assistant – CyLab  
Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE  
Keywords  
Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers  
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Keywords  
Security, privacy, formal methods, and programming languages.  
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Keywords

cloud computing, storage/file systems, operating systems, distributed systems

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Computer architecture, operating systems, file systems, disk arrays

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Keywords

Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Keywords

Semiconductor device physics and semiconductor process technology, sensors

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Keywords
Scheduling of computer systems, workload characterization, heavy-tailed distributions

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Keywords
Tribology, nanomanufacturing, multi-scale particle flows

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Keywords
Research in wireless technology and telecommunications policy

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Keywords
Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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Keywords
Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

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Keywords

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Keywords

Network economics and pricing, cloud computing, mobile/edge computing

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Keywords

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

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Keywords

performance analysis, cloud computing, machine learning

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Keywords

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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

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Keywords
agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

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Keywords
Advanced switch and network architectures, fault-tolerant network architectures, network management and control

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distributed embedded systems, survivable system architecture, dependability

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Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications
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Keywords

Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems
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Keywords

Magnetic recording, optical recording and ferroelectric materials
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Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices
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Keywords

Magnetic materials, material science, electron microscopy, x-ray diffraction
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Keywords
Integrated circuits, computer-aided design

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Digital circuit design, computer architecture, memory design, reconfigurable computing

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Keywords
Computer-aided design and manufacturing of VLSICs

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Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

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Keywords
Technology and policy including climate change and electric power

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Keywords
Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

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Keywords
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Keywords
Analog/RF/MEMS/biofluidic microsystem design

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Keywords
Computer architecture, hardware/software interaction, operating systems, fault tolerance

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Keywords

Digital Design, Embedded Systems, Networks

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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

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Keywords

computational sensors, computer graphics, computer vision, image processing, optics

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Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

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Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

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Keywords
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Keywords
Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RFC IC design

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Keywords
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Keywords

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Keywords

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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Keywords

Design, implementation and modeling of electronic integrated systems

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Keywords

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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Keywords

Embedded and real-time systems
Ramakrishnan, Bhiksha Raj  Courtesy  Professor – ECE; Associate Professor – LTI
Reddy, Raj  Courtesy  Professor – ECE; Mozah Bint Nasser University Professor – CS
Reyes, Brittany  Academic Services and Student Organizations Coordinator – ECE
Ricketts, David  Adjunct Professor – ECE
Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
Risley, Mason  Process Engineer – Nanofab
Rohrer, Ronald A.  Professor Emeritus – ECE
Keywords
Electronic circuits, systems design automation
Rosvanis, James  Nanofab Technician – Nanofab
Rowe, Anthony  Associate Professor – ECE
Keywords
Embedded systems, distributed systems, sensor networks
Rutenbar, Rob A.  Adjunct Professor – ECE
Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
Salvador, Paul A.  Associate Professor – MSE; Affiliated Faculty – DSSC
Sankaranarayanan, Aswin  Assistant Professor – ECE
Santhanam, Suresh  Principal Process Engineer – ECE
Satyanarayanan, Mahadev  Carnegie Professor – CS; Courtesy Professor – ECE
Marios Savvides
Research Professor – ECE; Director – CyLab
Biometrics Center

Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed)
Adjunct Professor – ECE

Keywords
Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff
Research Professor – RI; Courtesy Professor – ECE

Keywords
Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Seshan, Srinivasan
Associate Professor – CS; Courtesy Professor – ECE

Keywords
Network protocols, applications, distributed systems, mobile computing, wireless networks

Shah, Nihar
Assistant Professor – MLD, CSD; Courtesy Professor – ECE

Keywords
Modern superscalar processor design, instruction-level parallelism and code scheduling

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Computer architecture, reliability, context aware mobile computing

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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Keywords

Mobile computing, computer architecture, system design methods, wearable computers

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Keywords
Wireless communications, nanophotonics, spin wave devices

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Keywords
Computer networks, distributed systems, pervasive computing

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Keywords
Automatic speech recognition, auditory perception, signal processing

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Keywords
Statistically based CAD/CAM of VLSI circuits

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Keywords
Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

Talukdar, Sarosh  Professor Emeritus – ECE

Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying  Adjunct Professor – ECE

Tayur, Sridhar  Courtesy Professor – ECE; Professor – Tepper

Thomas, Donald  Professor Emeritus – ECE

Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua  Systems Administrator – ECE

Tomko, Jessica  Admissions Coordinator – ECE

Tonguz, Ozan  Professor – ECE

Keywords

Optical networks, wireless networks and communications systems, and high-speed networking

Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT

Keywords

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

Ustun, Taha Selim  Assistant Teaching Professor – ECE

Keywords
Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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Keywords

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Keywords

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**Keywords**

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**Keywords**

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

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**Keywords**

Multi-core processors, Network-on-chip, Digital VLSI

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**Keywords**

Computer networks, internet, resource management, multimedia

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Keywords
Sensor Networks, Embedded Systems

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Micromagnetics, magnetoelectronic devices, magnetic recording

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